

**Table 2.5 Total Multipliers for Output, Earnings, Employment, and Value Added by Industry Aggregation  
Tulsa County, Oklahoma (Type I)**

INDUSTRY	Multiplier					
	Final Demand				Direct Effect	
	Output/1/ (dollars)	Earnings/2/ (dollars)	Employment/3/ (jobs)	Value-added/4/ (dollars)	Earnings/5/ (dollars)	Employment/6/ (jobs)
1. Farms	1.2605	0.2339	8.0053	0.5114	1.2864	1.1548
2. Forestry, fishing, and related activities	1.1926	0.3502	13.8023	0.7463	1.1451	1.0683
3. Oil and gas extraction	1.3082	0.1942	2.4244	0.8853	1.4685	1.6910
4. Mining, except oil and gas	1.5393	0.2126	3.2334	0.8513	1.8631	2.0966
5. Support activities for mining	1.3410	0.2908	4.5329	0.8644	1.3839	1.5795
6. Utilities*	1.6115	0.2279	3.1097	0.9158	2.0445	2.9276
7. Construction	1.4572	0.3514	7.0382	0.7743	1.3698	1.4609
8. Wood product manufacturing	1.4023	0.2408	5.7664	0.5046	1.6089	1.4783
9. Nonmetallic mineral product manufacturing	1.4988	0.2466	4.8472	0.6655	1.7490	1.7366
10. Primary metal manufacturing	1.4707	0.2051	3.9580	0.4908	1.8348	1.8304
11. Fabricated metal product manufacturing	1.4588	0.2555	4.6057	0.6215	1.5856	1.6925
12. Machinery manufacturing	1.4720	0.2362	4.0547	0.6144	1.7031	1.8942
13. Computer and electronic product manufacturing	1.3421	0.2601	4.1990	0.7145	1.4465	1.6143
14. Electrical equipment and appliance manufacturing	1.4178	0.2025	4.0509	0.6086	1.7338	1.6811
15. Motor vehicles, bodies and trailers, and parts manufacturing	1.4302	0.1947	4.1525	0.4589	1.8360	1.6950
16. Other transportation equipment manufacturing	1.3948	0.2206	3.3979	0.6429	1.6505	1.9196
17. Furniture and related product manufacturing	1.4141	0.2513	6.6565	0.6076	1.5483	1.3900
18. Miscellaneous manufacturing	1.4896	0.2931	7.5229	0.7327	1.6169	1.4202
19. Food and beverage and tobacco product manufacturing	1.4495	0.2106	4.6199	0.5015	1.8394	1.6887
20. Textile mills and textile product mills	1.4144	0.2620	8.5581	0.5272	1.5324	1.2778
21. Apparel and leather and allied product manufacturing	1.5986	0.2995	8.9848	0.7602	1.7666	1.4490
22. Paper manufacturing	1.5146	0.2175	3.6660	0.5880	1.8893	2.0664
23. Printing and related support activities	1.5260	0.3056	8.4850	0.7348	1.6084	1.4443
24. Petroleum and coal products manufacturing	1.4149	0.1738	1.9360	0.5180	1.6299	1.9521
25. Chemical manufacturing	1.4707	0.2035	3.2062	0.6183	1.8665	2.0731
26. Plastics and rubber products manufacturing	1.6556	0.2355	4.3607	0.6184	1.9736	1.9535
27. Wholesale trade	1.3720	0.3431	6.2510	0.8994	1.3646	1.5141
28. Motor vehicle and parts dealers	1.2331	0.3940	8.7136	0.9142	1.1482	1.1823
29. Food and beverage stores	1.3709	0.3821	12.9445	0.8875	1.2668	1.1902
30. General merchandise stores	1.4281	0.3627	14.5705	0.8973	1.3988	1.1940
31. Other retail	1.4102	0.3660	14.4159	0.8846	1.3330	1.1966
32. Air transportation	1.5688	0.2324	3.7885	0.7287	1.9337	2.4507
33. Rail transportation	1.4619	0.2371	3.5727	0.7581	1.6469	1.9911
34. Water transportation	1.0000	0.0000	0.0000	0.0000	0.0000	0.0000
35. Truck transportation	1.7058	0.3347	6.4642	0.8021	1.7416	1.8247
36. Transit and ground passenger transportation*	1.6285	0.4070	18.0540	0.7801	1.4636	1.1650
37. Pipeline transportation	1.5087	0.2951	3.7320	0.8061	1.5971	2.3915
38. Other transportation and support activities*	1.5045	0.3687	8.0260	0.8682	1.4561	1.4895

(Continued)

Region Definition: Tulsa, OK

\*Includes Government enterprises.

1. Each entry in column 1 represents the total dollar change in output that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

2. Each entry in column 2 represents the total dollar change in earnings of households employed by all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

3. Each entry in column 3 represents the total change in number of jobs that occurs in all industries for each additional 1 million dollars of output delivered to final demand by the industry corresponding to the entry. Because the employment multipliers are based on 2015 data, the output delivered to final demand should be in 2015 dollars.

4. Each entry in column 4 represents the total dollar change in value added that occurs in all industries for each additional dollar of output delivered to final demand by the industry corresponding to the entry.

5. Each entry in column 5 represents the total dollar change in earnings of households employed by all industries for each additional dollar of earnings paid directly to households employed by the industry corresponding to the entry.

6. Each entry in column 6 represents the total change in number of jobs in all industries for each additional job in the industry corresponding to the entry.

NOTE.--Multipliers are based on the 2007 Benchmark Input-Output Table for the Nation and 2015 regional data. Industry List B identifies the industries corresponding to the entries.

SOURCE.--Regional Input-Output Modeling System (RIMS II), Regional Product Division, Bureau of Economic Analysis.

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39. Warehousing and storage	1.4821	0.3806	10.8919	0.8872	1.3831	1.3485
40. Publishing industries, except internet (includes software)	1.4827	0.3050	6.9120	0.8990	1.6092	1.6426
41. Motion picture and sound recording industries	1.3414	0.2085	7.8952	0.7422	1.6057	1.3466
42. Broadcasting and telecommunications	1.4126	0.2377	4.0936	0.8180	1.5669	1.8461
43. Data processing, internet publishing, and other information services	1.3956	0.2970	6.1312	0.7709	1.4763	1.6276
44. Federal Reserve banks, credit intermediation, and related activities	1.4221	0.2989	6.3531	0.8058	1.5378	1.6787
45. Securities, commodity contracts, and investments	1.5524	0.4312	11.1251	0.7188	1.4719	1.4285
46. Insurance carriers and related activities	1.4463	0.2907	5.9162	0.8132	1.5156	1.5876
47. Funds, trusts, and other financial vehicles	1.5631	0.2709	9.2546	0.5089	2.2335	1.6743
48. Real estate	1.3671	0.2083	8.9429	0.9226	1.6770	1.3328
49. Rental and leasing services and lessors of intangible assets	1.3681	0.2808	5.4152	0.8341	1.4257	1.5775
50. Professional, scientific, and technical services	1.3694	0.4753	9.5373	0.8484	1.2536	1.3400
51. Management of companies and enterprises	1.3806	0.4422	7.1308	0.8273	1.2719	1.4476
52. Administrative and support services	1.3544	0.4645	15.0687	0.8783	1.2374	1.1723
53. Waste management and remediation services	1.5487	0.3159	6.2433	0.7685	1.6523	1.8155
54. Educational services	1.4161	0.4983	19.2287	0.8595	1.2218	1.1497
55. Ambulatory health care services	1.3932	0.4854	9.0062	0.8600	1.2447	1.3560
56. Hospitals	1.4500	0.4517	8.7744	0.8194	1.3266	1.4305
57. Nursing and residential care facilities	1.3970	0.4707	16.2297	0.8630	1.2214	1.1694
58. Social assistance	1.4130	0.4800	21.3399	0.8452	1.2281	1.1309
59. Performing arts, spectator sports, museums, and related activities	1.4115	0.4027	15.6587	0.8421	1.3206	1.2125
60. Amusements, gambling, and recreation industries	1.4803	0.2984	14.5775	0.8398	1.6124	1.2350
61. Accommodation	1.3847	0.3428	12.7074	0.8539	1.3647	1.2045
62. Food services and drinking places	1.4368	0.3895	16.8897	0.7739	1.3290	1.1539
63. Other services*	1.4842	0.3973	11.1096	0.8320	1.3853	1.3127
64. Households	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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